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TICTICCGCCGCAAAAGATCCTCCCAGAAGAGACCTTTCAGTAGTACTTAGACTGAGGAGTTTACATTACCAGTGACGCAGATTTTCTCAGGAGGACTACCAGCCTAACTTACGATA

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TCTTÇTTCAACAGATCAATTGGAAGCCCCTGGCAÇAGTTTCAGAAGAATÇCCAGGTGCTTACTGATGTTTGAGAGTCTCATTATGGATGATAAGATTGTTGAAGAAGTAATAAAGAA AGAAGAAGTTGTCTAGTTAACCTTCGGGGACCGTGTCAAAGTCTTCTTAGGGTCCACGAATGACTACAACTCCAGAGTAATACCTACTATTCTAACAACTTCTACTTCAT 2/33 E D E \Box × ப ഗ ഥ > 0 വ [±] ß > ⊱ Д 떠 0

AGACAAGGTTACGCCCTCTGTCAATCGTAGCCTTTTTAACCTAGATTTGGTTCCAGGTAAGGAGGTGGGCCGTCTCCCGTTTCTTATATACTGTATCTAGGTTCGAACTGTCCGAAAGCA

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CAACACCTAGATTACCGGTATTCACAGTACAAAAGACTCCGAGAAGAAATTGACAAGTATGAAGGTAGTCTGGATGCATTTTCTCGTGGCTATGAAAAGTTTGGTTTTCTCACGCAGTGAA 720 GTTGTGGATCTAATGGCCATAAGTGTCATGTTTTCTGAGGCTCTTCTTTAACTGTTCATCATCATCAAGACCTACGTAAAAAGAGCACCGATACTTTTCAAACCAAAGAGTGCGTCACTT Ċ 0 ഗ

FIG. 2-2 FIG. 2-3 FIG. 2-4 FIG. 2-1

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gTTCAAGCACCACTGAATTCCCAȚATAAȚGGCAȚATACȚATGAȚCCTCCCGAGGAGGAGTATCTTCAAAAATCCTCAGCCAAAGACCAAAATCACTTCGGAȚTTAȚGAGTCG CAAGTTCGTGGTCCACTTGAGGGTĂTATTACCGTĂTATGATACTĂGGAGGGCTCCTCCTCTTCATACACAAGTTTTTAGGCGTTTCTCTGGTTTTAGTGAAGCCTAAATACTCAGC 3/33 വ ы × പ ĸ × Hind III 0 > × ഥ ഥ 띠 D Y Н ტ Z ы Ġ ď

0 \geq ø z Ġ П × × 24 Д \Box Ω 24 ᄄ YA Z ĿЦ ഗ വ ж CATTCATATTATGCTAGTTTTGGGTATCACGTCACAAACTTTTATGCAGCTGATTTTGGAACTCCTGATGATTTTAAAGTCCCTAGTAAAGCTCACGAGTTAGGTCTTTT Ø > ப വ × ᆈ \Box \Box Д E-1 Ö [] ĸ വ വ Ø ø \succ ᄄ × Nsi I > c ഥ വ Ø വ

<u>GTTCTCATGGATATTGTTCATGCGATGCATCAACTAATACGTTGGATGGCCTGAATATGTTTGATGGTACGGATGGTCACTTTCACTCTGGACCACGGGGTCATCATTGGATGTGG</u> 3 Д Ċ လ 二 \succ Ö \Box G 또 \mathbf{z} Z ப Ç \Box Ц Z വ ď 二 ഗ

CTGAGAGCGGAAAAGTTGATACCCTCGACCTCCCAAGATTTCCAAGAAGTTTATGTTCCACCACCAACCTACTCAAACTACCCAAGTCTAAACTACCCCACTGAAGTTAC **GACTÇTCGCÇTTTTÇAACTATGGGAGCTTCTAAGGTTTCTTCTAATACAAGGTGGTGGTTGGATGAGT**GAAGTTTGATGGGTTCAGATTTGATGGGGTGGGTGACTTCAATG Œ \Box 口 3 ⊢ ഗ Д ſ۲ П > Ġ

TACATGTGGGTAGTACCTAACGTCCATCTAAAGTGGCCGTTGATGTTACTTATGAAACCTATACGTTGACTACGACCAACTAGACTACGACAACTTACTAAGTACCA DAVYLMLL z C പ × Y V K ы Z G Ċ Д О Ö

acccaactetaataagtettetetetetaacettittacccactgtaacatgtatacgactggttgtecgccaccaaccttitcacacaagaatacgactitcagiactg <u>TGGGȚTGAGĄTTATȚCAGAĄGAGATGAĄGATTGGAAAATGGGȚGACAȚTGTAÇATATĢCTGAÇCAACĄGGCGĢTGGTŢGGAAAAGTGŢGTTTÇTTATGCTGAAAGTCĄTGACÇAGGCÇ</u> N E X C L M 24 Z E □ G D I V H M K N O 0

4/33 <u>CTTGTTGGTGACAAACTATTGCCTTTTTGGCTGAJGGACAAGGAJATGTATGACTTCATGGCTCGTGACAGACCATCTACTCTTATAGATCGTGGAATAGCATTGCACAAATGAT</u> 24 I I Д ⊢ S 吖 ď Z Ē Σ × Ω Σ ᆸ 3 V

<u>AGGCȚTATTĄCCATGGGCTȚAGGCGAGAAGCATATTTGAATTTȚATGGGAAATGAATTȚGGACATCCTGAGTGGATTCATTTȚCCAAGAGGGGATCGAÇATCTÇCCCAATGGTAAGTA</u> 24 വ G استا ⊡ Z Ç ᄄ П Ċ 禸

TAAGGTCCCTTGTTGGTCAATACTATTTACGGCAGCATCTAAACTAGATCCACTACGTCTGATAGATTCTATAGTACCTTACGTTCTAAACTAGTCCGTTACGTTGTAGAACTTCTT <u>ĄTTCCAGGGĄACAACCACAĢTTATGATAAĄTGCCGTCGTĄGATTŢGATCŢAGGTĢATGCĄGACTĄTCTAĄGATÀŢCATGGAATGCAAGGTTTGĄTCAGĢCAATGCAACĄTCTTGAAGAĄ</u> Y H G A D Y L R G n O 24 SYDK

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ATAAGTCTAATGGCTCAACCGACGAAGTTCAGTCCTTTCATGTTCTAACAAACCTGAGCCTACTACCGAACAAACCTCCGAAGTTGTCCGAATCAGTACGGCTCGTGAAGTGGAAA <u>TATTÇAGATȚACCGAGTTGGCȚTCAAGTCAGGAAAGȚACAAGATTGȚTTTGGACTCGGATGATGGTGTTȚGGAGGCTTCAACAGGCTTAGTCATGATGCÇGAGCACTTT</u> ഗ G > ഗ G

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CACTITIGET CGAGGC CGACT CTATICATA A A TOTA COTAGGGGA TITICG TO COTA COLO CATAGA COTAGA COTAGA COTAGA A COTAGA COTA **GTGAĄACCAĢCCTCÇGGCTĢAGATAGTATTTAGŢAAGAĢGATCÇCCTAĄAGCAĢGAATĢGTTAĄCCTGŢGCAŢTGCAŢTGAAÇGACGŢATATŢGAGAÇTTGAĄTTGAŢTTGCŢGCTCĄ**

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GGACACAGAATATTAATTCCAAGGCTCAAGGATACACGCCATAATGCATGATCATATGAAGCTCCCCAACTTGTAAATCATTTAGCAAGCTGCGTGCACTCTGTAAATTATATG CCTGTGTCTTATAATTAAGGTTCCGAGTTCCGTCTCTATGCGGTATTACGTACTAGTATACTTTCGAGGGGTTGAACATTTAGTAAATCGTTCGACGCACGTGAGACATTTAATATATA

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TAGTĄCTTTGGCAAGTCACGTTATTATGGĄTACCATGGAĮGTCCGCTAGGAAAATTTTGTGTAŢACGCCTACTAGGATŢTTTAAATCTCGCATGTTCCACATAAAGTGGTGTTGAATG ATCATGAAACCGTTCAGTGCAATAATACCTATGGTACCTACAGGCGATCCTTTTTAAAACACATATGCGGATGATCCTAAAAATTTAGAGCGTACAAGGTGTATTTCACCACCAACTTAA

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FIG. 2-4

	12(CATGG CATGG CATGG
	110	TACCGGCTTC TACCGGCTTC TACCGGCTTC
	100	AATCTCAATC AATCTCAATC AATCTCAATC
	0.6	ATGGGACACTACCACATATCAGGAATACGTTTTCCTTGTGCTCCACTCGGCAAATCTCAATCTACCGGCTTCCATGG ATGGGACACTACACCATATCAGGAATACGTTTTCCTTGTGCTCCACT W TGCAAATCTCAATCTACCGGCTTCCATGG ATGGGACACTACACCATATCAGGAATACGTTTTCCTTGTGCTCCACTCTGCAAATCTCAATCTACCGGCTTCCATGG
	<u>.</u> 8.	TTCCTTGTGCT TTCCTTGTGCT
	0 <u>'</u>	GGAATACGTT GGAATACGTT GGAATACGTT
-	<u>.0</u> -	CACCATATCA CACCATATCA CACCATATCA
-	20	TGGGACACTA TGGGACACTA TGGGACACTA
-	40	CTCAGCGAAA CTCAGCGAAA CTCAGCGAAA
-	<u>.</u> 20.	TCTCTAACTT TCTCTAACTT TCTCTAACTT
-	20	TCTCACACTC TCTCACACTC TCTCACACTC
-	10	TTAGTTGCGTCAGTTCTCACACTCTCTCTAACTTCTCAGCGAAAI TTAGTTGCGTCAGTTCTCACACTCTCTCTAACTTCTCAGCGAAAI TTAGTTGCGTCAGTTCTCACACTCTCTCTAACTTCTCAGCGAAAI

ACAGTACAAAAGACTCCGAGAAGAAATTGACAAGTATGAAGGTGTCTCTGGATGCATTTTCTCGTGGCTATGAAAAGTTTGGTTTCTCACGCAGTGAAACAGGAATAACTTATAGAGAGTG ACAGTACAAAAGACTCCGAGAAGAATTGACAAGTATGAAGGTAGTCTGGATGCATTTTCTCGTGGCTATGAAAAGTTTGGTTTCTCACGCAGTGAAACAGGAATAACTTATAGAGAGTG **ACAGTACAAAAGACTCCGAGAAGAAATTGACAAGTATGAAGGTAGTCTGGATGCATTTTCTCGTGGCTATGAAAAGTTTGGTTTCTCACGCAGTGAAAACAGGAATAACTTATAGAGAGTG**

AGATGTCATGACTCAGAATGAGTGTGGGGAGATCTTTTTTGCCGAATAATGCAGATGGTTCACCACCAATTCCCCCATGGTTCTCGAGTAAAGATAAGGATACGCATGGATACTCCATCTGG
AGATGTCATGACTCAGAATGAGTGTGTGGGGTCTTGGGATACTCCCGAATAATGCAGATCCACCACCAATTCCCCCATGGTTCTCGAGTAAAGATAMGCATGGATACTCCCATCTGG AGATGTCATGACTCAGAATGAGTGTGTGTGTGTGTTTTTTGCCGAATAATGCAGATGGTTCACCAATTCCCCATGGTTCTCGAGTAAAGATACGCATGGATACTCCATCTAG

ATATAATGGCATATACTATGATCCTCCCGAGGAGGAGGAGTATGTGTTCAAAAATCCTCAGCCAAAGAGACCCAAAATCACTTCGGATTTATGAGTCGCACGTTGGAATGAGTACGGA ATATAATGGCATATACTATGATCCTCCCGAGGAGGAAGTATGTGTTCAAAAATCCTCAGCCAAAGAGACCAAAAATCACTTCGGATTTATGAGTCGCACGTTGGAATGAGTAGGAA ATATAATGGCATATACTATGATCCTCCCGAGGAGGAGGAGGAAGTATGTGTTCAAAAATCCTCAGCCAAAGAGACCAAAATCACTTCGGATTTATGAGTCGCACGTTGGAATGAGTAGTACGGA 905 901

3-2 FIG. FIG. FIG. 3-3 3-1

	ssbe2con. seq 20con. seq 35con. seq	
180	AGGAG csbe AGGAG 20cc AGGAG 35cc) C
170	CGCCGTTTTCT2 MGCCGTTTTCT2 CGCCGTTTTCT2	0 - 0
160	TTCAAGAAGG TTCAAGAAGG TTCAAGAAGG	210
150	TTCCTTCAAC TTCCTTCAAC TTCCTTCAAC	320
140	CTCTTGCCT CTCTTGCCT	320
130	TGATCGAAGGACCTCCTCTTTGCCTTTCAACTTCAAGAAGGCGGCGTTTTTTGAGGAGG csbe2con. ©GATCGGAGGACCTCCTCTTGCCTTTCCTTCAACTTCAAGAAGGAGGCGTTTTCTAGGAG 20con. ser TGATCGAAGGACCTCCTCTTGCCTTTCCTTCAAGAGAGGCGGCGTTTTCTAGGAG 35con. ser	310

AGCCCCTGGCACAGTTTCAGAAGAATCCCAGGTGCTTACTGATGTTGAGAGTCTCATTAT csbe2con. seq AGCCCCTGGCACAGTTTCAGAAGAATCCCAGGTGCTTACTGATGTTGAGAGTCTCATTAT 20con. seq AGCCCCTGGCACAGTTTCAGAAGAATCCCAGGTGCTTACTGATGTTGAGAGTCTCATTAT 35con. seq

/	Se
540	TTC csbe2con. s
530	PAGATTACCGGTATTC
520	CGTCAACACCT
510	TGACAGGCTTT
200	TCCAAGCTTGACA
490	ATATATGACATAGATCCAAGCTTGACAGGCTTTCGTCAACACCCTAGATTACCGGTATTC CS
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ed AATATATGACATAGATUCAAGUTTGACAGGCTTTGGTCAACACCTAGATTACGGGTATTU ZUGOn. seq AATATATGACATAGATCCAAGCTTGACAGGCTTTGGTCAACACCTAGATTACGGGTATTC 35con. seq

GGCACCAGGAGCTACGTGGGCTGCATTGATTGGAGATTTCAATAACTGGAATCCTAATGC csbe2con. seq GGCACCAGGAGCTACGTGGGCTGCATTGATTGGAGATTTCAATAACTGGAATCCTAATGC 20con. seq GGCACCAGGAGCTACGTGGGCTGCATTGATTGGAGATTTCAATAACTGGAATCCTAATGC 35con. seq

CAACAAAGATTCTATTCCTGCTTGGATCAAGTTCTCAGTTCAAGCACCAGGTGAACTCCC csbe2con. seq CAACAAAGATTCTATTCCTGCTTGGATCAAGTTCCAGTTCAAGCACCAGGTGAACTCCC 35con. seq

GCCAGTAATTAACACATATGCCAACTTTAGAGATGATGTGCTTCCTCGCATCAAAAGCT csbe2con. seq GCCAGTAATTAACACATATGCCAACTTTAGAGATGATGTGCTTCCTCGCATCAAAAAGCT 20con. seq GCCAGTAATTAACACATATGCCAACTTTAGAGATGATGTGCTTCCTCGCATCAAAAAGCT 35con. seq

0		1.	10	Lo	1.	
1190 770076 770076	1370 CTCGCCTTT CTCGCCTTT	1550 TGATG TGATG TGATG	17,30 GATTA GATTA GATTA	1910 CAGAC CAGAC CAGAC	2090 SAACA SAACA SAACA	
11,20 11,30 11,40 11,50 11,60 11,60 11,70 11,80 11,2 AGCATTCATATTATGCTAGTTTTGGGTATCACGTCACAAACTTTTATGCAGCTAGCAGCCGATTTGGAACTCCTG AGCATTCATATTATGCTAGTTTTGGGTATCACGTCACAAACTTTTTATGCAGCTAGCAGCCGATTTGGAACTCCTG AGCATTCATATTATGCTAGTTTTTGGGTATCACGTCACAAACTTTTTATGCAGCTAGCAGCCGATTTGGAACTCCTG	13/0 13/10 13/20 13/40 13/40 13/50 13/60 1	1480 1490 1500 1510 1520 1530 1540 155 TGATGTACACCCCATCATGGATTGCAGGTAGATTTTGACCAACTACAATGAATACTTTGGATATGCAACTGATGATGATGATACTTTGGATATGCAACTGATGATGATGATGATACACCCATCATGGATATGCAACTGATGATGATGATACCCATCATGGATATGCAACTGATGATGATACTTTTGGATATGCAACTGATGATGATACTTTTTTTT	1630 1640 1720 1720 1730 1730 1730 1730 1730 1730 1730 173	1810 1820 1890 190 1920 1830 1850 1860 1870 1870 1890 1990 1970 1890 1890 1990 1990 1990 1990 1990 199	2020 2030 2040 2050 2060 2090 2090 2090 2091 2090 2090 2090 209	
1170 GCTAGCAGCC GCTAGCAGCC	13,50 CATTGGATGT CATTGGATGT CATTGGATGT	15¦30 GAATACTTTG GAATACTTTG GAATACTTTG	17,10 GTTGCTGATA GTTGCTGATA GTTGCTGATA	1890 TATGACTTCA TATGACTTCA	20'70 ABTGGTAAABAGGAGGAGGAGGAGGAGAAAT	
1160 ACTTTTATGCZ ACTTTTATGCZ ACTTTTATGCZ	ACGGGGTCAT	1520 CAACTACAAT CAACTACAAT	1700 CCACATGGCT CCACATGGCT CCACATGGCT	18'80 CAAGGATATG CAAGGATATG	2060 ACATCTTCCC ACATCTTCCC	•
1150 CACGTCACAA CACGTCACAA CACGTCACAA	13'0 13'10 13'50 13'60 1	1510 SATTTMACCGC	1690 ATTATCGTCT ATTATCGTCT	1870 GGCTGATGGA GGCTGATGGA GGCTGATGGA	2050 GAGGGGATCE GAGGTGATCT GAGGTGATCT	
1140 TTTGGGTAT TTTTGGGTAT	13,20 ICACTACTITIC ICACTACTITIC	1500 ATTGCAGGTAG ATTGCAGGTAG	1680 CTTGGCTTTG CTTGGCTTTG	1860 ATTGCATTTT ATTGCATTTT	2040 GATTTCCAA GATTTTCCAA GATTTTCCAA	22,20
1130 ATTATGCTAG ATTATGCTAG	1310 STACGGATGG STACGGATGG	1490 CCCATCATGGZ CCCATCATGGZ	1670 AGATCGTGGT AGATGGTGGT	1850 FIGACAAAACT FIGACAAAACT	20'30 MGAGTGGATT CGAGTGGATT CGAGTGGATT	22,10
	1300 ATCTTTGATG ATCTTTGATGA	14¦80 ATGATGTACA ATGATGTACA ATGATGTACA	1660 ATTCCGGTTGA ATTCCGGTTGA	1840 SCCCTTGTTGG SCCCTTGTTGG	2020 TTGGACANCC TTGGACACCC	22,20
1090 1110 1164 TGGCTACAATGCTGTTCAGCTCATGGCTATTCAAC 1085 TGGCTACAATGCTGTTCAGCTCATGGCTATTCAAC 1081 TGGCTACAATGCTGTTCAGCTCATGGCTATTCAAC	12'90 12'90	1460 1470 1524 GTTTGATGGGTTCAGATTTGATGGGGTGACTTCAA 1445 GTTTGATGGGTTCAGATTTGATGGGGTGACTTCAA 1441 GTTTGATGGGTTCAGATTTGATGGGGTGACTTCAA	1630 1640 1650 TGCTGAAGATGTTAGTGGAATGCCAACAGTTTGCA TGGTGAAGATGTTAGTGGAATGCCAACAGTTTGCA TGGTGAAGATGTTAGTGGAATGCCAACAGTTTGCA	1830 CATGACCAGO CATGACCAGO CATGACCAGO	1990 2000 2010 2010 2010 2010 2010 2064 CGGAGARATTTGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATTTTATGGGAAATGAATT	21,90
1100 TTCAGCTCAT TTCAGCTCAT	12'80 ATACGTTGGA ATACGTTGGA ATACGTTGGA	1460 GATTTGATGG GATTTGATGG GATTTGATGG	1640 GTGGAATGCC GTGGAATGCC GTGGAATGCC	1820 ATGCTGAAAG ATGCTGAAAGA	2000 IGAATITITATO IGAATITITATO IGAATITITATO IGAATITITATO	2180
1090 TACAATGCTG TACAATGCTG TACAATGCTG	12,70 GCATCAACTA GCATCAACTA GCATCAACTA	1450 GATGGGTTCA GATGGGTTCA GATGGGTTCA	1630 SAAGATGTTA SAAGATGTTA SAAGATGTTA	1810 IGTGTTTCTT IGTGTTTCTTZ IGTGTTTCTTZ	1990 BAAGGATATT BAAGGATATT BAAGGATATTT	21,70
1164 <u>TGGC</u> 1085 TGGC 1081 TGGC	1344 CCAT 1265 CCAT 1261 CCAT	1524 GTTT 1445 GTTTT 1441 GTTTT	1704 TGGTV 1625 TGGTV 1621 TGGTV	188 <u>4 AAAG:</u> 1805 AAAG1 1801 AAAG1	2064 CGGAC 1985 CGGAC 1981 CGGAC	0.000

FIG. 3-3

2244 GCAAGAGTTTGATCAGGCAATGCAATCTTGAAGAAGCCTATGGTTTTCATGACTTCTGAGCA 2165 GCAAGAGTTTGATGATTCTGAGCAA 2165 GCAAGAGTTTGATGATTCTGAGCAAT 2161 GCAAGAGTTTGATGATTTCATGAGTTTTGAGCAATTCAGCATCTTGAAGAAGCCTATGGTTTTCATGACTTCTGAGCA

	2con. seg n. seg n. seg		2con. seq n. seq n. seq	
12 <mark>6</mark> 0	4G csbe 4G 20co: 4G 35co:	1440	4A 20col 4A 35col	1630
	GTTCATA GTTCATA		GAGTACI GAGTACI GAGTACI	
1250	GGATATT GGATATT GGATATT	1430	STTGGAT STTGGAT	1610
1240	OCTABTAGATAAAGCTCACGAGTTAGGTCTTCTTGTTCTCATGGATATTGTTCATAG csbe2con. seq TCTAATAGATAAAGCTCACGAGTTAGGTCTTCTTGTTCTTCATGGATATTGTTCATAG 20con. seq TCTAATAGATAAAGCTCACGAGTTAGGTCTTCTTGTTCTNATGGATATTGTTCATAG 35con. seq	1420	CTGGGAGGTTCTAAGGTTTCTTTTCAAATACAAGGTGGTGGTTGGATGAGTACAA csbe2con. seq CTGGGAGGTTCTAAGGTTTCTTTCTAAATGCAAGGTGGTGGTTGGATGAGTACAA 20con. seq CTGGGAGGTTCTAAGGTTTCTTTCTAATGCAAGGTGGTGGTTGGATGAGTACAA 35con. seq	1600
1230	STTAGGTCTT(STTAGGTCTT(STTAGGTCTT(1410	CTTTCAAATC CTTTCAAATC	1590
1220	AAGCTCACGA(AAGCTCACGA(AAGCTCACGA(1400	PAGGTTTCT: PAGGTTTCT:	1580
1210	CTA G TAGATA/ CTAATAGATA/ CTAATAGATA/	13,90	PGGGAGGTTCT PGGGAGGTTCT PGGGAGGTTCT	1570
1200	ATGATTTAAAGTCO ATGATTTAAAGTCT ATGATTTAAAGTCT	1380	TCAACTATGGGAGC TCAACTATGGGAGC TCAAC © ATGGGAGC	1560
	ATG ATG		TCA TCA	

AC@ATGGGAGC	rggaggrīc	TAAGGTTTCTT	CTTTCAAATG	CAAGGTGGT	ACOATGGGAGCTGGGAGGTTTCTTTCTTTCAAATGCAAGGTGGTGGTTGGATGATGCAA 35con.	GGGAGCTGGGAGGTTTCTTCTTTCAAATGCAAGGTGGTGGTTGGATGAGTACAA 35con. seq
15,60	15,70	1580	1590	1600	1610	$\frac{16}{20}$
ATGCTGTGTTT. ATGCTGTGTTT. ATGCTGTGGTTT.	PATOTGATGC PATTTGATGC PATTTGATGC	TGTTGAATGAT TGTTGAATGAT TGTTGAATGAT	ATGATTCATG ATGATTCATG ATGATTCATG	GTCTCTTCC	CAGAGGCTGTCAC	ATGCTGTGGTTTATTTGATGCTGTTGAATGATAGATTCATGGTCTCTTCCCAGAGGCTGTCACCAT csbe2con. seq ATGCTGTGTGTTTATTTGATGCTGTTGAATGATATGATTCATGGTCTCTTCCCAGAGGCTGTCACCAT 20con. seq ATGCTGTGTTTATTTGATGATGATTGATAGATAGATAGAT

csbe2con. seq 20con. seq 35con. seq	
ACCAT CACCAT 2	1800
AGAGGCTGTC AGAGGCTGTC AGAGGCTGTC	17,90
GTCTCTTCCC	17,80
PATGATTCATG	17,70
rgttgaatgat rgttgaatgat rgttgaatga	1760
TATOTGATGCT PATTTGATGCT	1750
TAGATGCTGTGGTTTTATTGTGATGCTGTTGAATGATATGATTCATGGTCTCTTCCCAGAGGCTGTCACCAT csbe2con. seq TAGATGCTGTGGTTTATTTGATGCTGTTGAATGATATGATTCATGGTCTTTCCCAGAGGCTGTCACCAT 20con. seq TAGATGCTGTGGTTTATTTGATGCTGTTGAATGATATGATTCATGGTCTCTTCCCAGAGGCTGTCACCAT 35con. seq	1740 1750 1760 1770 1780

TTCAGAAGAGAGATGAAGATTGGAAAATGGGTGACATTGTACATATGCTGACCAACAGGCGGTGGTTGGA csbe2con. seq TTCAGAAGAGAGAGATGAAGATTGGAAAATGGGTGACATTGTACATATGCTGACCAACAGGCGGTGGTTGGA 20con. seq TTCAGAAGAGAGATGAAGATTGGAAAATGGGTGACATTGTACATATGCTGACCAACAGGCGGTGGTTGGA 35con. seq

CATCTACTCCTCTTATAGATCGTGGAMTAGCATTGCACAAAATGATCAGGCTTATTACCATGGGOTTAGG csbe2con. seq CATCTACTCCTCTTATAGATCGTGGAGTAGCATTGCACAAAATGATCAGGCTTATTACCATGGGATTAGG 1805 CATCTACCCCTCTTATAGATCGTGGAGTAGCATTGCACAAATGATCAGGCTTATTACCATGGGATTAGG 35con. seq

ARGACAGTTATGATAAATGCCGRCGTAGNTTTGATCTAGGRCATGCAGAGNATCTNAGATATCATGGAAT csbe2con. seg ATTACAGTTATGATAAATGCCGGCGTAGGTTTGATCTAGGCAATTCAAAGCGTCTGAGATATCATGGAAT 20con. seq csbelcon. seq 20con. seq 35con. seq

₹ 120 GAGACATTGAAGA???GCTTTACCCTGTGATGTGTTGTAGTCCTTATGCAAAGGAACACGAGGTGAGACGT??AGAGTTAGATGGCCGAAGGTACCGATAGCCTCCTGGAGGAGAACGG <u>CTCTÇTAACȚTCTCĄGCGAĄATGGGACACȚACACÇATATÇAGGAĄTACGȚTTTCÇTTGTGCTCCĄCTCTĢCAAȚCTCAĄTCTAÇCGGCȚTCCAȚGGCTATCGGĄGGACÇTCCTÇTTGC</u> RFPCAPLCKSOST G

AACTTACGATAAGAAGTTGTCTAGTTAACCTTCGGGGACCGTGTCTTCTTAGGGTCCACGAATGACTACAACTCTCAGAGTAATACCTACTATTCTAACAACTTCTACTAC <u>TTGAĄTGCTĄTTCTŢCTTCĄACAGĄTCAAŢTGGAĄGCCCCŢTGGCĄCAGTŢTCAGĄAGAAŢCCCAĢGTGCŢTACTĢATGTŢGAGAĢTCTCĄTTATĢGATGĄTAAGĄTTGTŢGAAGĄTGAAG</u> D D SNVMVTA H Ω S 0 H S G K S S ĿЛ ⊱ G SRRVF പ 0

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CAGGCTTTCGTCAACACCTAGATTACCGGTATTCACAGTACAAAGACTCCGAGAAGAATTGACAAGTATGAAGGTAGTCTGGATGCATTTTCTCGTGGCTATGAAAGTTTGGTTTCT

ĠTCCĠAAAGĊAGTTĠTGGATCTAATGGCCATAAGTGTCATGTTTTCTGAĞGCTCTCTTTAACTGTTCATACTTCCATCAGACCTACGTAAAAAGAGCACCGATAĊTTTTCAAACCAAAGA E I O K Y N A z 3 Ø 3

FIG. 4-3 FIG. 4-4 FIG. 4-2 FIG. 4-1

TCAAGTTCTÇAGTTÇAAGCACCAGGTGAAÇTCCCATATAATGGCATATAÇTATGATCCTÇCCGAGGAGGAGGAGAAGTATGTTCAAAAAATÇCTCAGCCAAAGAGAGACCAAATCACTTCGGA AGTICAAGAGICAAGIITCGIGGICCACITGAGGGIATATIACCGIATATGATACTAGGAGGGCICCICCITCATACACAAGITITIAGGAGICGGIITICICIGGIITITAGIGAAGCCI Hind III ᄄ \triangleright \succ 24 ഥ Д О, ⋈ Н G 2 ⋈ Д 口 됴 G Д Ø

11/18 AAATACTCAGCGTGCAACCTTACTCATCATGCCTCGGTCATTAATTGTGTATACGGTTGAAATCTCTACTACAAGGAGGGGGGTTTTTCGAACCGATGTTACGACAAGTCGAGTTAC <u>TTTAȚGAGTÇGCACĢTTGGĄATGAĢTAGTĄCGGAĢCCAGŢAATTĄACACĄTATGÇCAACȚTTAGĄGATGĄTGTGÇTTCCŢCGCAŢCAAĄÄGCTŢGGCTĄCAATĢCTGTŢCAGCŢCATGG</u> <u>CTATȚCAAGĄGCATȚCATAȚTATGÇTAGTȚTTGGGTATCĄCGTCĄCAAAÇTTTTĄTGCAGCTAGCAGCCGATTTGGAAC</u>ŢCCTGĄTGATȚTAAAGTCTCȚAATAGATAAĄGCTCACGAGT GATAAGTTCTCGTAAGTATAATACGATCAAAACCCATAGTGCAGTGTTTGAAAATACGTCGATCGTCGGCTAAAACCTTGAGGACTACTAAATTTCAGAGATTATCTATTTCGAGTGTGCTCA ഥ 二 Ċ ഗ K L × ப О <u>~</u> Д ⊢ Λ G ഥ Ω Ω ß ĸ വ N Fi ø Ø YA \succ ſz., ⊏ PVIN \triangleright Ħ ⊱ ഥ G ᅜ ഗ ഗ മ Ø

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FIG. 4-2

FIG. 4-3

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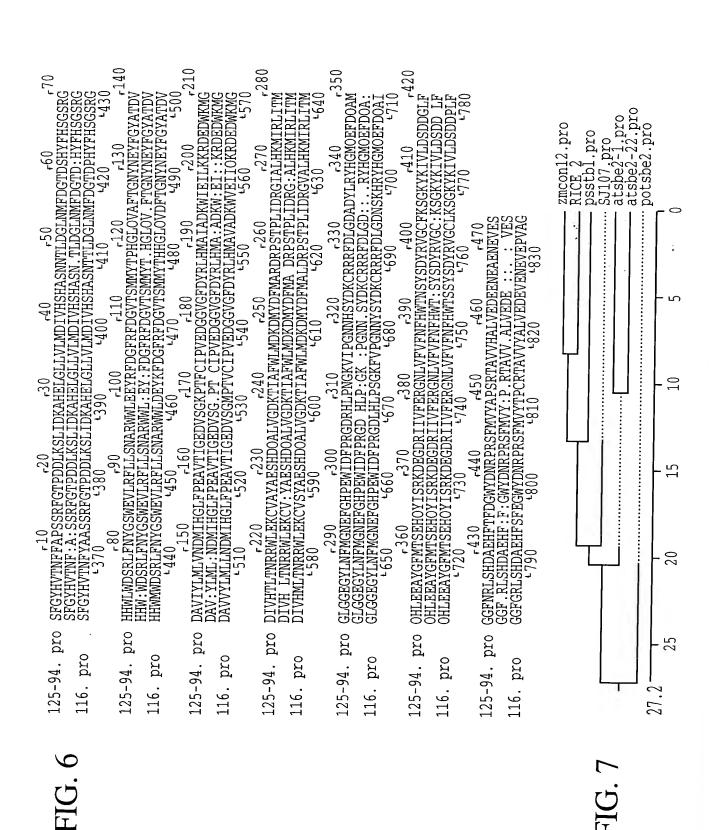
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FIG. 5-3



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CTCAGACCTCCTAAAACCATAAATCTTCAAGCTGCCTGCGTTCGGTAGTATGTTATGTGGTACTTTGCAATCTTAAATTATCATGATCGCTGTGGATGCTA GAGTCTGGAGGATTTGGTATTTAGAAGTTCGACGGACGCAAGCCATCATACAATACACCATGAAACGTTAGAATTTAATAGTACTAGGACACCTACGAT

ATTATGCAACCTACCCGACTTGTACAAACTACCATGCCTATCAGTGATGAAGGTGAGGCCTAGTGCCCCAGTAGTAACCAACACCCTGAGAGCGGAAAAG GCCGATTTGGAACTCCTGATGATTTGAAGTCTTTAATAGATAAAGCTCATGAGTTAGGGCCTGCTTGTTCTCATGGATATTGTTCATAGCCCATGCGTCAAA <u>ĄACTĄTGGAĄGCTGGGAGGŢGCTAĄGATTŢCTTCTŢTTCAĄATGCĄAGATĢGTGGŢTGGAĄGAGTĄCAGGŢTTGAŢGGTTŢTAGAŢTGAŢGGGGŢGACTŢ</u> TTGATACCTTCGACCCTCCACGATTCTAAAGAAGAAGTTTACGTTCTACCACCAACCTTCTCATGTCCAAAACTACCAAAATCTAAACTACCCACTGAA SLIDKAHELGLIVLMDI ტ E S D S H Y F N A M F D G T

FIG. 10-2

GCTTGTGAAȚGATAȚGATTÇACGGȚCTTTȚCCCTGAGGCȚGTTAÇCATTGGTGAAGATGȚTAGCGGAAAÇAAÇATTTȚGCATȚCCAGȚGGAAGATGGŢ **CGAACACTTACTATACTAAGTGCCAGAAAAGGGACTCCGACAATGGTAACCACTTCTACAATCGCCTTTCGGTTGTAAAACGTAAGGTCACCTTCTACCA** TDVDA PHGLOVAFTGNYNEYFGYA FIG. 10-1

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ATACACTCAÇCAACAGAAGGTGGTTGGAAAATGTGTTGCTTATGCTGAAAGTCATGACCAAGCTCTTGTTGGTGACAAACTATTGCATTTTGGCTGAT 800 CCACAACCTAAACTAATGGCAGAGGTGTACCGGTAACGGCTATTTACCTAACTCTAAGAATTCTTCTTCTACTCTGACCTTTTTACCCACTGTAACACG TATGTGAGTGGTTGTCTTCCACCAACCTTTTTACACAACGAATACGACTTTCAGTACTGGTTCGAGAACAACCACTGTTTTGATAACGTAAAAACCGACTA T I Bcl I T F C I S G K P Ø G E D V AIADKWI GLFPERAVTI Ø V A

CCTGTTCCTGTACATGCTGAAGTACCGAGCACTGTCTGGTAGATGAGGAGAATATCTAGCACCTTATCGTAACGTGTTTTACTAGTCCGAATAATGGTAC GGACAAGGAÇATGTACGACTTCATGGCTCGTGACAGACCATCTAÇTCCTÇTTATAGATCGTGGAATAGCATTGCACAAAATGATCAGGCTTATTACCATG CCTGTTCCTGTACATGCTGAAGTACCGAGCACTGTCTGGTAGATGAGGAGAATATCTAGCACCTTATCGTAACGTGTTTTACTAGTCCGAATAATGGTAC G I A L H STPLI പ R D M

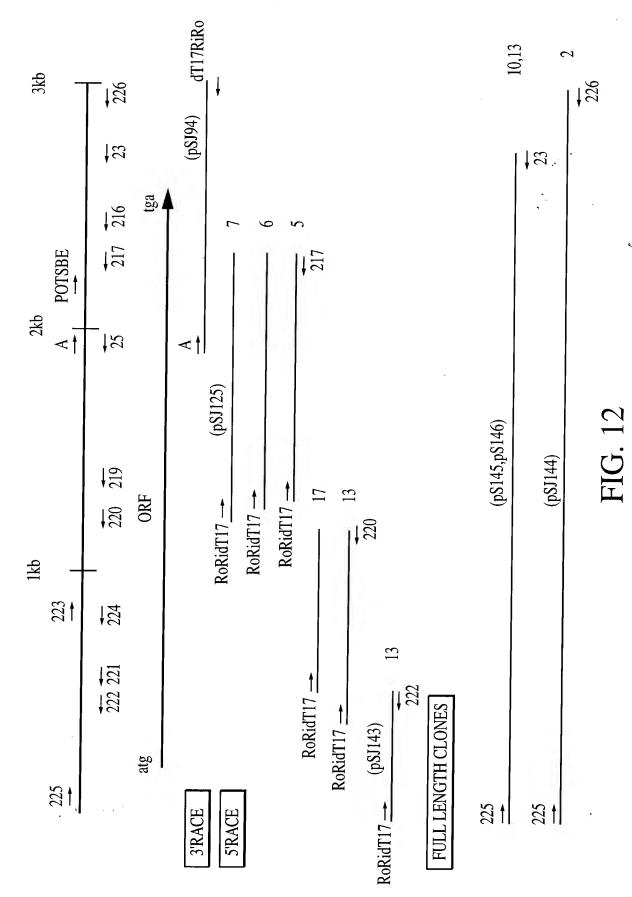
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TCAGGCAATGCAACATCTTGAAGAAGCCTATGGTTTCATGACTTÇTGAGÇACCAGTATATATCAÇGGAAGGATGAAGGATCGATCGATTGTTGTTTTGAG AGTCCGTTACGTTGTAGAACTTCTTCGGATACCAAAGTACTGAAGACTCGTGGTCATATATAGTGCCTTCCTACTTCCTCGTAGCTAGTAACAGAAACTC GECTGAGATAGATATTTAGTAAGAGGATCCCCTAAAGCAGGAATGGTTAACCTGTGCATCTGCATTGAACGACGTATATTGAGACTTGAATTGATTTGCT CCGACTCTATCTATAAATCATTCTCCTAGGGGATTTCGTCCTTACCAATTGGACACGTAGACGTAACTTGCTGCATATAACTCTGAACTTAAACTAAACGA 1600 AAGTAATTCCAGGGAACAACCACAGTTATGATAAATGCCGTCGTAGATTTGATCTAGGTGATGCAGACTATCTAAGATATCATGGAATGCAAGAGTTTGA TTCATTAAGGTCCCTTGTTGGTGTCAATACTATTTACGGCAGCATCTAAACTAGATCCACTACGTCTGATAGATTCTATAGTACCTTACGTTCTAAACT AGGGGAAACÇTTGTTTTTGTATTCAACTTTGCACTAACAGÇTATTÇAGATTACCGAGTTGGCTGCTTCAAGTCAGGAAAGTACAAGATTGTTTTGG TCCCCTTTGGAACAAAACATAAGTTGAAAGTAACCTGATTGTCGATAAGTCTAATGGCTCAACCGACGAGGTTCAGTCCTTTCATGTTTCAACAAAACC ACTCGGATGATGCTTGTTTGGAGGCTTCAACAGGCTTAGTCATGATGCCGAGCACTTCACCTTTGACGGGTGGTATGATAACCGGCCTCGGTCCTTCAT TGAGCCTACTACCGAACAAACCTCCGAAGTTGTCCGAATCAGTACTACGGCTCGTGAAGTGGAAACTGCCCACCATACTATTGGCCGGAGCCAGGAAGTA GCTCAGGACACACAGAATATTAATTCCAAGGCTCAAGGCAGAGATACACGCCATGATGCATGATCATATGAAAGCTCCCCAACTTGTAAATCATTTAGCAAG G N N H S Y D K C R R R F D L G D A D Y L R Y H G M O E F D CGAGTCCTGTGTCTTATAATTAAGGTTCCGAGTTCCGTCTCTATGTGCGGTATTACGTACTAGTATACTTTCGAGGGGTTGAACATTTAGTAAATCGTTC G N L V F V F N F H W T N S Y S D Y R V G C F K S G K Y K I V L G G F N R L S H D A E H F T F D G W Y D N R P R <u>С</u> Œ E SRKDE E E E E N E A Hinc II E H O A I SspI H A L V E D E-MOHLEEAYGFM T A V V BamH I

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FIG. 11



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AGAGTGGCTTTACCÁTATGÁTGTGÁCATAGTCCGTATGCÁAAAGGAACACGTGGÁAGTGÁGATGTTTAGÁGTCGÁGTGGTCGAAGGTACCGCCAGCTTCCTGGAGAAGAAGGAAAGGAÁ PCTCĄCCGAĄATGGȚATACȚACACȚGTATÇAGGCĄTACGȚTTTCÇTTGTĢCACCȚTCACȚACAAATCȚCAGCȚCACCĄGCTTÇCATGĢCGGTÇGAAGGACCTÇTTCTĢGCCTȚTCCTȚ

TGATGGCTCTTCTTCTTCAACATATCAATTAGAAACCACTGGCACAGTTTTGGAGGAATÇCCAGGTTCTTGGTGATGCAGAGGATGTTGGAAGATGATAAGAATGTTGAGGAGGA ACTACCGAGAAGAAGAAGTTGTATAGTTAATCTTTGGTGACCGTGTCAAAACCTCCTTAGGGTCCAAGAACCACTACGTCTTCTAGAACATTGTTATTTTTAGAACTCCT ₽ ⊱ 口 П 0

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FIG. 13-4 FIG. 13-3 FIG. 13-2 FIG. 13-1

FIG. 13

FIG. 13-1

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TIGGAICAAGIICICAGITICAGGCACCIGGIGAAAICCCATACAAIGCCATATACTAIGAICCACCAAAGGAGGAGAAGTAIGITICAAACAICCICAGCCAAAGAGACCAAAAAICACT AACCIAGITICAAGAGICAAGICCGIGGACCACITIAGGGIAIGITACGGIATAIGAIACTAGGIGGITICCICCICTICATACAAAGITIGIAGAGICGGITICICAGGITITIAGIGA ധ വ д M D T ĸ V K I 24 ഗ U 出 Д Н പ പ ഗ G \Box Ø z Z പ щ

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GCCCAATGGTAAAGTAATTCCAGGGAACAACCACAGTTATGATAAATGCCGTCGTAGATTTGATCTAGGTGATGCAGACTATCTAAGATATCATGGAATGCAAGAGTTTGATCAGGCAAT 2280 CGGGTTACCATTTCATTAAGGTCCCTTGTTGGTGTCTATTTACGGCAGCATCTAAACTAGATCCACTACGTGATAGATTCTATAGTACCTTACGTTCTCAAACTAGTCCGTTA 2280

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FIG. 13-3

<u>GCAAÇ</u>ATCTȚGAAGAGCCȚATGGȚTTCAȚGACTȚCTGAGCACCAGTAȚATATCACGGAAGGATGAAGGAGCATCGATCGATCATTGATACAGGGGAAAÇCTTGTTTTGTATTCAACTT

TCATTGGACTAACAGCTATTCAGATTACCGAGTTGGCTGCTTCAAGTCAGGAAAGTACAAGATTGTTTTGGACTCGGATGATGGTTGTTTGGAGGCTTCAACAGGCTTAGTCATGATGC AGTAACCTGATTGTCGATAAGTCTAATGGCTCAACCGACGAAGTTCAGTCTTTCATGTTCTAAAAACCTGAGCCTACTACCGAACAAACCTCGGAAGTTGTCCGAATCAGTACTACG

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FIG. 13-4